Thin fronts, easily assembled
The first fixing system for thin fronts for lift systems, doors and pull-outs
www.blum.com
Rediscover simplicity

Minimalist design creates room for inspiration. Broaden the range of your possibilities for implementing trends in furniture manufacturing. The first fixing system for thin fronts for lift systems, doors and pull-outs makes minimalist furniture design simple.
Detailed information on the awards: www.blum.com/award
Easily implemented: three applications

To make it as easy as possible for you we have developed a fixing system that you can use to implement a total of three applications: lift systems, doors and pull-outs. Furniture impresses with thin fronts and proven Blum functionality – in all living areas.
An easily assembled system

Our new products for thin fronts are based on EXPANDO T. A steel pull-in anchor ensures a secure fit for harder materials while plastic jaws secure the fit for softer materials. EXPANDO T is fixed in a drilling with a diameter of 10 mm and a drilling depth of just 6 mm.
6 mm
Assembly made easy

Lift system, door and pull-out – with the new fixing system all furniture with thin fronts will have one thing in common: assembly and adjustment are simple and convenient. Drill, insert, secure with screws, and that’s it. EXPANDO T is also available as an individual dowel for other applications.

With the new fixing mechanism from CLIP top BLUMOTION for thin doors, we have succeeded in integrating the BLUMOTION functionality into hinges – without any need for a hinge boss. Furniture with inner pull-outs can be implemented with this hinge because of 0-protrusion.
The narrow design of LEGRABOX drawers and pull-outs is accentuated to full effect. Because of identical fixing positions it takes very little time to assemble the front.

Chosen lift system types – AVENTOS HK, HS and HL – can be implemented with the fixing system for thin fronts – with an unchanged fixing position.
Easily combined materials

Our fixing system EXPANDO T for thin fronts from 8 mm is suitable for many materials and even allows for exceptional design ideas. Surprise your customers with customised furniture.
Veneered chipboard

MDF
Ceramic
Ceramic
An easily available range

A single fixing system for three applications with thin fronts makes product selection and ordering significantly easier. Implement different lift system types, LEGRABOX pull-outs with different heights as well as conventional door applications – with few components.

- **Fixing system EXPANDO T** pre-assembled
- for fronts of 8 mm or thicker
- for various front materials
- for 3 different applications (lift systems, doors, pull-outs)

### Lift systems

**AVENTOS front fixing bracket**

<table>
<thead>
<tr>
<th>Hinge</th>
<th>Spring</th>
<th>Colour</th>
<th>Part number</th>
</tr>
</thead>
<tbody>
<tr>
<td>CLIP top BLUMOTION</td>
<td>●</td>
<td>NI</td>
<td>71B453T</td>
</tr>
<tr>
<td>CLIP top</td>
<td>●</td>
<td>NI</td>
<td>71T453T</td>
</tr>
<tr>
<td>CLIP top</td>
<td>○</td>
<td>NI</td>
<td>70T453TL</td>
</tr>
</tbody>
</table>

- With spring
- Unsprung

Fixing positions according to the Blum catalogue

### Box systems

**LEGRABOX front fixing bracket**

<table>
<thead>
<tr>
<th>Height</th>
<th>Part number</th>
</tr>
</thead>
<tbody>
<tr>
<td>N</td>
<td>ZF7N70T2</td>
</tr>
<tr>
<td>M</td>
<td>ZF7M70T2</td>
</tr>
<tr>
<td>K</td>
<td>ZF7K70T2</td>
</tr>
<tr>
<td>C</td>
<td>ZF7C70T2</td>
</tr>
</tbody>
</table>

Fixing positions according to the Blum catalogue

### Hinge systems

**CLIP top BLUMOTION for thin doors**

<table>
<thead>
<tr>
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<td>NI</td>
<td>70T453TL</td>
</tr>
</tbody>
</table>

- With spring
- Unsprung

For planning information see hinge brochure

### Other products

**LEGRABOX front/base stabiliser**

- cabinet width of 601 mm or greater 1 x
- cabinet width of 901 mm or greater 2 x
- front height of 381 mm or greater 1 x

**EXPANDO T – single**

<table>
<thead>
<tr>
<th>Part number</th>
</tr>
</thead>
<tbody>
<tr>
<td>70T4532T</td>
</tr>
</tbody>
</table>
### Drilling depth

<table>
<thead>
<tr>
<th>Symbol</th>
<th>Definition</th>
<th>Min 6</th>
<th>Ø 10</th>
</tr>
</thead>
<tbody>
<tr>
<td>BT</td>
<td>Drilling depth</td>
<td></td>
<td></td>
</tr>
<tr>
<td>ES</td>
<td>Screw penetration depth</td>
<td></td>
<td></td>
</tr>
</tbody>
</table>

**Example:**

- ES min = 4 mm
- ES max = BT - 0.5 mm

*For stone and ceramic +0.2/-0.1 mm

### Assembly of EXPANDO T

### Space requirement and drilling pattern for LEGRABOX front/base stabiliser

**Example:**

![Diagram of drilling pattern]

- X = 14 + FA
- FA Front overlay

*For stone and ceramic +0.2/-0.1 mm

** min 80

### EXPANDO T area of application

EXPANDO T is suitable for fixing Blum fittings to thin front materials in furniture manufacturing.

With sufficient stability and strength, front materials of 8 mm thickness and above may be used.

### Area of application and assembly recommendation

<table>
<thead>
<tr>
<th>Materials tested by Blum</th>
<th>Minimum tightening torque (Nm)</th>
</tr>
</thead>
<tbody>
<tr>
<td>Chipboard (transverse tensile strength &gt; 0.4 N/mm²)</td>
<td>1.5</td>
</tr>
<tr>
<td>MDF (transverse tensile strength &gt; 0.6 N/mm²)</td>
<td>1.5</td>
</tr>
<tr>
<td>HDF</td>
<td>2</td>
</tr>
<tr>
<td>HPL</td>
<td>2</td>
</tr>
<tr>
<td>Mineral composites</td>
<td>2</td>
</tr>
<tr>
<td>Granite stone – Nero Assoluto</td>
<td>3</td>
</tr>
<tr>
<td>Artificial stone – quartz composite</td>
<td>3</td>
</tr>
<tr>
<td>Ceramic plates</td>
<td>3</td>
</tr>
</tbody>
</table>

### Disclaimer of liability

Blum accepts no liability for the use of EXPANDO T in combination with materials not listed or fittings from other manufacturers. It is recommended that the assembly be carried out by an experienced furniture manufacturer.

### Further information

Learn more about our new EXPANDO T fixing system for doors, lift systems and pull-outs.
Support is simple with our services

You can implement individual design ideas, and the best way to do this is with the right support directly from the fittings manufacturer. We will show you how to efficiently plan, design, produce, install and market furniture with thin fronts. Available online 24/7 and, of course, in person.
Any questions about our new fixing system for thin furniture fronts?

Then please do not hesitate to contact us. You will find your personal Blum contact at www.blum.com/contact

E-SERVICES offers you comprehensive information about more than just the new fixing system – in other words, it provides all inclusive support to make your life easier.

Login details are required in order to take full advantage of all our services. Register at www.blum.com/e-services
The company Blum

Founded over 60 years ago by Julius Blum, Blum is a family-owned company that operates on an international scale. Its strategic business segments include lift, hinge and pull-out systems. All our product developments focus on perfecting motion.
Blum in Austria and around the world
The company has eight plants in Vorarlberg, Austria, additional production sites in Poland, the USA and Brazil and 30 subsidiaries/representative offices. Blum supplies more than 120 markets. The Blum Group employs 7,600 people in total, 5,800 of whom work in Vorarlberg.

Global customer benefits
“Whether manufacturer, distributor, fitter or kitchen user – everybody should personally enjoy the benefits of Blum products” – that is Blum’s philosophy on global customer benefits.

Innovations
To support customers with innovative fittings solutions and secure long-term success for the company, we need to consistently invest in research and development, in plants and facilities and in employee training. With more than 2,100 granted patents worldwide, Blum is one of Austria’s most innovative companies.

Quality
Blum’s comprehensive concept of quality does not only apply to products. Services and collaboration with customers and partners should also meet the same quality requirements.

Environment
At Blum, we believe that responsible ecological behaviour has long-term economic benefits. The longevity of products is just one of many important aspects. Other important measures include the use of environmentally-friendly processes, the intelligent use of materials and prudent energy management.

DYNAMIC SPACE
Good workflows, optimum use of storage space and top quality motion are important features of a practical kitchen. Blum’s ideas for practical kitchens are designed to bring function, convenience and ergonomics to furniture interiors.